

Appl. No. 10/605,745
Amdt. dated September 27, 2005
Reply to Office action of 06/28/2005

AMENDMENTS TO THE CLAIMS

1-9. (cancelled)

5 10. (previously presented) A method for scaling a digital picture comprising the following steps:

- (a) inputting a source picture to a source memory;
- (b) providing a first buffer and a second buffer;
- (c) determining scaling factors;

10 (d) generating initial data in the first buffer and second buffer;

- (e) transferring a portion of data of the digital picture from the source memory to the first buffer, the portion of data having a size in a second direction of L and size in a first direction equal to a corresponding size of the source picture;

15 (f) using an L -tap filter to scale the data in the first buffer in the first direction and storing the scaled data in the second buffer;

- (g) using the L -tap filter to scale the data in the second buffer in the second direction and storing the scaled data in a destination memory, the scaled data having a size in the first direction of $2*L-1$;

20 (h) for each different portion of data in sequence, repeating steps (e) through (g) to form a scaled picture; and

- (i) outputting the scaled picture from the destination memory.

11. (cancelled)

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12. (original) The method of claim 10 wherein the first direction is a horizontal direction, and the second direction is a vertical direction.

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13. (original) The method of claim 10 wherein the first direction is a vertical direction, and the second direction is a horizontal direction.
14. (previously presented) The method of claim 10 wherein step (d) comprises applying a mirror boundary condition to the first buffer and filtering initial data in the first buffer to produce the initial data in the second buffer.
15. (previously presented) The method of claim 10 further comprising before scaling a last portion of the digital picture in the second direction, applying a mirror boundary condition to part of the digital picture scaled in step (f).
16. (previously presented) The method of claim 10 further wherein step (e) comprises omitting transfer of part of the digital picture for down-scaling.